

IN THE ABSTRACT:

Please DELETE the Abstract in its entirety and substitute the attached new Abstract shown below.

A high density recording medium with a super-resolution near-field structure including a mask layer comprising high melting point metal oxide or silicon oxide. A high density recording medium with a super-resolution near-field structure includes a sequential stack of a second dielectric layer, a recording layer, a protective layer, a mask layer, a first dielectric layer, and a polycarbonate layer, wherein the mask layer comprises high melting point metal oxide or silicon oxide to generate a near field by optically or thermally inducing physical changes in the crystalline structure and optical properties of the high melting point metal oxide or silicon oxide.